



The BARC Newsletter is published quarterly by Bangladesh Agricultural Research Council (BARC) to provide news and information on agricultural research and development to the NARS and other concerned organization in Bangladesh.

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In This Issue

- National Seminar on Fruit Tree Plantation
- Seminar on Boro Rice Cultivation under Dry Seeded Method
- Research Review 2015-2016 and Program Planning Workshop 2016-2017
- Workshop on Annual Evaluation of AFACI Projects in Bangladesh
- Directory of Annual Agricultural Research Programme of NARS Institutes
- Crop Calendars Published
- ARMIS Application And its Operation
- Digital File Numbering and e-Filing
- Consultation Meeting and Inception Workshop of AFACI-Postharvest Project
- Training on Postharvest Management and Technology of Mango
- Experiment of Postharvest Management of Mango
- Review of Socio-Economic Research Programme and Future Research Programme of NARS Institutes
- Post-Budget Seminar
- National Workshop on Agricultural Biotechnology
- GPM Training
- Training on Right to Information Act
- FAO Regional Consultation Meeting
- Second AFACI International Training-Workshop
- Pulses for Sustainable Agriculture and Human Health
- AFACI General Assembly in Colombo
- Workshop on the Review of Avian Influenza
- Government Launches National Agricultural Technology Program -Phase II

BARC Newsletter

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National Seminar on Fruit Tree Plantation

National Tree Plantation Program 2016 was observed throughout the country on 1 June. In this context the Ministry of Agriculture observed fruit tree plantation fortnight from 14-30 June. As a part of national plantation program BARC organized a national seminar on *Contribution of Local Fruits to Nutritional and Economic Security* on 16 June, 2016 at Krishibid Institution Bangladesh (KIB), Dhaka. Hon'ble Commerce Minister Mr. Tofael Ahmed, MP was present as chief guest. Hon'ble Agriculture Minister Begum Matia Chowdhury, MP and Mr. Md. Mokbul Hossain, MP & Chairman, Parliamentary Standing Committee on the Ministry of Agriculture were present as the special guests. The seminar was presided over by Mr. Mohammad Mainuddin Abdullah, Secretary, Ministry of Agriculture. Dr. Abul Kalam Azad, Executive Chairman, BARC was present as a Guest of Honor. Prof. Dr. Md. Mahbubur Rahman, VC, BSMRAU, Gazipur was the keynote speaker. Mr. Md. Hamidur Rahman, Director General, DAE gave the welcome address.



Mr. Tofael Ahmed, MP, Hon'ble Commerce Minister was addressing the seminar as Chief Guest.

Highlighting various points on significance of the fruit and fruit trees in terms of the present social and national aspects, the keynote speaker put emphasis on transforming the tree plantation campaign into a social movement. Hon'ble Commerce Minister Mr. Tofael Ahmed, MP stressed extensive tree plantation to improve environment and biodiversity to make the region habitable for all.

He also added the period of obtaining 60% fruits in May-August should be increased. Special guest Begum Matia Chowdhury, MP, Hon'ble Agriculture Minister said obstacles to export fruits has to be overcome. Technology of the production of hybrid coconut and seedless lotkon should be developed. Our thinking in recognition of global village of modern world has been increased, she added. Mr. Mohammad Mainuddin Abdullah, Secretary, Ministry of Agriculture in his concluding speech termed the tree plantation as a big investment and said many people have been changing their lots through establishing nurseries and making orchards garden. Highlighting various beneficial aspects of trees and homestead gardening in human life, he urged all to plant at least three trees including one fruit tree around their homesteads to help to maintain environmental and ecological balance.



Hon'ble Guests inaugurating the National Fruit Fair, 2016

Special guest Mr. Md. Mokbul Hossain, MP in his speech emphasized on the needs and importance of local fruits for meeting up the nutritional demand and earning foreign currency. He urged scientists to conduct research for increasing the food value of hybrid fruits. Dr. Abul Kalam Azad, EC, BARC laid importance on increasing the availability of fruits round the year. In this regard he drew attention of the scientists to provide the farmers with quality planting materials. Planting fruit saplings around their respective homesteads to help to maintain environmental and ecological balance and save the region from the wrath of any future natural catastrophe was also urged by other speakers. They

added there is no alternative to plant more saplings to protect the ecology after facing the adverse effect of climate change in the region. All concerned should put in their best effort to make the region green by increasing fruit trees area.

Seminar on Boro Rice Cultivation under Dry Seeded Method

As per the instruction of the Ministry of Agriculture a seminar on *Developing a Technology for Boro Rice Cultivation under Dry Seeded Method* was held on 9 June, 2016. The seminar was presided over by Mr. Mohammad Moinuddin Abdullah, Secretary, Ministry of Agriculture, where Begum Matia Chowdhury, MP, Hon'ble Minister, Ministry of Agriculture was present as chief guest. Dr. Abul Kalam Azad, Executive Chairman of BARC delivered welcome address. Prof. Dr. Md. Moshiur Rahman, Department of Agronomy, Bangladesh Agricultural University, Mymensingh presented a keynote paper on the above subject. In his presentation Dr. Rahman elaborated the water saving technology for boro rice cultivation under dry seeded method. The scientists and officers attended the seminar from different agricultural research-extension agencies, universities and other agricultural offices exchanged their views about the efficacy of this technology.



Hon'ble Agriculture Minister Begum Matia Chowdhury, MP, Mr. Mohammad Moinuddin Abdullah, Secretary, Ministry of Agriculture, Dr. Abul Kalam Azad, Executive Chairman of BARC, Prof. Dr. Md. Moshiur Rahman, Department of Agronomy, Bangladesh Agricultural University, Mymensingh graced the Seminar.

Research Review 2015-2016 and Program Planning Workshop 2016-2017

A three day workshop on *Research Review 2015-2016 and Program Planning Workshop 2016-2017* of Forestry and Agroforestry Research Activities in Different NARS Institutes and Universities was organized during 24-26 May 2016 at BARC. The objectives of the workshop were to review the forestry research activities of 2015-2016, identifying the problems, prospects, research activities and development of forestry in Bangladesh and future forestry research planning for 2016-2017 in Bangladesh. Seventy participants of NARS institutes, different universities, Department of Agricultural Extension, Department of Forest and other organizations participated in the workshop.



A View of the workshop on Research Review 2015-2016 and Program Planing Workshop 2016-2017

Dr. Abul Kalam Azad, Executive Chairman, BARC inaugurated the workshop as chief guest. Mr. Md. Younus Ali, the Chief Conservator of Forest, Department of Forest was special guest and Dr. Sultan Ahmmmed, Member-Director (NRM), BARC presided over the session as Chairperson. Thirty one research papers were presented in the workshop.

Workshop on Annual Evaluation of AFACI Projects in Bangladesh

A daylong workshop on *Annual evaluation of AFACI projects in Bangladesh* was held on 27 June 2016 at BARC. The workshop comprised of three sessions, two technical and a concluding session. In the technical session, Principal Investigators of 8 projects presented activities and achievements of

their respective projects. The concluding session was chaired by Dr. Abul Kalam Azad, the National Contact Person and Executive Chairman of BARC.



A View of the workshop on Annual Evaluation of AFACI Projects in Bangladesh.

Mr. Mohammad Nazmul Islam, the National Representative and Additional Secretary (PPC), Ministry of Agriculture was the chief guest while Dr. Jibon Krishna Biswas, Director General, Bangladesh Rice Research Institute was present as special guest. The welcome address was delivered by Mr. Md. Abeed Hossain Chowdhury, Director, Computer & GIS and the Principal Investigator of ATIN project while Dr. Mian Sayeed Hassan, CSO, Crops and Director, TTMU, BARC provided an overview of the AFACI projects activities in Bangladesh. After brief discussion on the presentation, the chief guest praised the AFACI activities and expressed gratefulness to the Korean government for the assistance. He also expected that the output of these projects will contribute towards the country's productivity enhancement and improve livelihood of the people. He emphasized on publication and networking among the AFACI countries and more collaborative programs on diversified projects to be undertaken through AFACI assistance in the coming days. The collaboration between the two countries will further be strengthened in future. The Chairman of the session expressed his gratitude to the Government of the Republic of Korea for providing financial support through AFACI in implementing projects for agricultural research and development of Bangladesh.

Directory of Annual Agricultural Research Programme of NARS Institutes

Bangladesh Agricultural Research Council published *Directory of Annual Agricultural Research Programme of NARS Institutes 2015-16* with the fund of AFACI-ATIN project. In the directory, the research programme are recorded by discipline and location under different program/projects planned for implementation by the NARS institutes during the fiscal year 2015-16. This document will help the research planners and the researchers to take note of the works planned/done while formulating new research undertaking, continuity of a promising activity and avoidance in repetition of a research work. The directory is compiled and edited by Dr. Abul Kalam Azad, EC, BARC, Dr. Paresh Chandra Golder, MD (P&E), Mr. Md. Abeed Hossain Chowdhury, Director, Computer & GIS and Dr. Md. Abdul Quayyum, former CSO, OFRD, BARI.

Crop Calendars Published

Crop calendars of 5 crops (Brinjal, Chili, Cotton, Guava, Jujube) have been published during April-June 2016. Thirty thousand copies of crop calendar have been published and distributed to Department of Agricultural Extension, Cotton Development Board, Agriculture Information Service, concerned NARS institutes, relevant divisions of BARC and other relevant organizations. The crop calendars of 20 crops published till date have been prepared in Bangla covering information, starting from pre-plantation to post-harvest activities of the crop. These include land preparation, seed treatment, plantation time and method, fertilizer dose with application, irrigation, intercultural operation, pest and disease management, harvesting and post-harvest management. Crop calendar has been published as an extension material for the farmers, extension workers and academics. The information included in the crop calendars were collected and collated by highly experienced agricultural professionals. Several interactive sessions were organized to decide on the content and upon receipt of feedback and peer review, these were finalized at

the end. Dr. Aziz Zilani Chowdhury, Member Director (Crops) of BARC with support from his scientific staff conducted the final editing of the crop calendars. The overall activity of the crop calendar preparation was supervised by a three member committee (One member from DAE) headed by PI of ATIN project. The crop calendars are available in the website <http://cropcalendar.barcapps.gov.bd>.

ARMIS Application And it's Operation

A series of hands-on training on *ARMIS Application* were held at different research institutes and universities with an aim to introduce the practical use and sustainability of the system. During the period the training were held at 8 locations such as Bangladesh Agricultural Research Institute, Bangladesh Rice Research Institute, Bangladesh Sugarcrop Research Institute, Bangladesh Institute of Nuclear Agriculture, Bangladesh Forest Research Institute, Bangladesh livestock Research Institute, Bangladesh Jute Research Institute and Bangladesh Agricultural Research Council. Total 321 scientists from the NARS organizations were trained through the training programs.

A workshop on *ARMIS Application and It's Operation* was held on 29 May 2016 at Hajee Mohammad Danesh Science and Technology University (HSTU), Dinajpur. Total of 110 participants from HSTU, BARI, SRDI, CDB, BSRI and BJRI attended the program. Till now, more than



A View of the Workshop

26,000 agricultural research information has been

incorporated into the ARMIS database. The ARMIS can be accessed through the link <http://armis.barcapps.gov.bd>.

Training on Digital File Numbering and e-Filing

Training on *Digital File Numbering and e-Filing* held on 2-3 April 2016 at BARC. The training was held in two batches-one for officers and other for staffs. Total 84 participants attended the training. As a part of building Digital Bangladesh, government organizations are introducing e-governance and e-filing system which is pertinent to ensuring the process of good governance. Resource persons from MoA and BARC conducted the training program.



Dr. Paresh Chandra Golder Member Director (A&F) and (P&E) was addressing the inaugural session.

The 18 digit digital file numbering system is explained in the program which is a prerequisite for e-filing. MoA representative showed the online e-Filing application practicing in MoA.



Participants of the training on Digital File Numbering and e-Filing

Upon receipt of user id and password BARC shall have to introduce e-filing system.

Consultation Meeting and Inception Workshop of AFACI-Postharvest Project Held

A consultation meeting on *AFACI-Postharvest project (2nd phase)* was held at BARC on 19 April 2016. The meeting discussed the 2nd phase activities to be carried out for the next three years during the project period.

Inception Workshop on *Application of Improved Postharvest Handling of Mango in the Postharvest Industry* was held at BARC on 9 May 2016. About



A View of the Workshop on Improved Postharvest Handling of Mango in The Postharvest Industry

30 scientists and postharvest related officers participated in the workshop. Program planning on reduction of postharvest losses of mango using improved postharvest handling were discussed thoroughly. Review on improved management techniques in country and abroad which are suitable to apply in our mango industry were also discussed. Lastly, methodology of improved postharvest handling procedure was discussed and decision was made on the basis of discussion.

Training on Postharvest Management and Technology of Mango

Training on *Postharvest Management and Technology for Mango growers, traders, retailers and extension personnel* was held at the Regional Horticultural Research Centre under Bangladesh Agricultural Research Institute at Chapainawabganj during 16-17 May 2016. The training class was

divided into two separate batches as theoretical and practical. Each batch consisted of 25 persons of different categories as mentioned above.



Training Activities of Postharvest Management

The trainees were taught about improved mango postharvest technologies including harvesting, de-latexing, hot water treatment, packaging, transport, etc. The trainees were very eager to learn and apply the acquired knowledge in the field of mango processing industry. It is expected that the postharvest loss of mango will be reduced to a greater extent as a result of the training. The training news was published in local newspaper (Chapai Dorpon) and also was telecasted in a TV channel.

Experiment on Postharvest Management of Mango

An experiment on *Postharvest Management of Mango* was carried out at the Regional Horticultural Research Centre under Bangladesh Agricultural Research Institute at Chapainawabganj during June 2016.



Postharvest Activities of Mango under AFACI-Postharvest Project

The mango was harvested with improved BARI-harvester as well as with traditional harvester. The harvested mangoes were de-latexed on a de-latexer. Then the de-latexed mangoes were treated with hot water treatment plant at 55°C for 5 minutes. In every case a control treatment was maintained to compare the results. After reaching normal temperature the mangoes were packed in plastic crates. The plastic crates were loaded on a truck and transported from Chapainawabganj to Horticulture Research Centre, BARI, Gazipur for observing other postharvest characteristics. The mangoes were then kept at postharvest laboratory and several crates were kept in retailers shop to observe the shelf life and nutritional status. The preliminary results of the experiment were encouraging. However, the complete findings of the experiment will take some time to publish.

Review of Socio-Economic Research Programme and Future Research Programme of NARS Institutes

A day long workshop on *Review of Socio-economic Research Programme (2015-16) and Future Research Programme (2016-17) of NARS institutes* was held at BARC on 02 June 2016, organized by the AERS Division. Eighty participants including agricultural economists from six NARS institutes and three agricultural universities attended the workshop.



A View of the workshop on Research Review 2015-2016 and Program Planing Workshop 2016-2017

A total of 39 papers and 41 brief future research programmes were presented in the workshop. Present and future research programmes were

critically reviewed by five expert members.

Post-Budget Seminar

A Post Budget Seminar was held at BARC Auditorium on 11 June 2016, which is organized jointly by AERS Division and Bangladesh Agricultural Economists Association. A keynote paper was presented on *Review of the National Budget 2016-17: Agriculture of Bangladesh Perspective*.



Among the others Mr. Abul Maal Abdul Muhith MP, Hon'ble Minister Ministry of Finance was the chief guest of the Seminar

The Chief Guest was Mr. Abul Maal Abdul Muhith, MP, Hon'ble Minister, Ministry of Finance, Government of the People's Republic of Bangladesh. Krishibid Dr. Md. Abdur Razzak, MP, President, Parliamentary Standing Committee, Ministry of Finance attended in the seminar as a Special Guest. Professor Dr. Shamsul Alam, Member, Planning Commission (Senior Secretary) & President, Bangladesh Agricultural Economists Association presided over the seminar.

National Workshop on Agricultural Biotechnology

A two-day long National *Workshop on Agricultural Biotechnology: research achievement, present status and future plan* was organized by Crops Division of BARC, Dhaka during 14-15 May, 2016. Bangladesh agriculture is facing number of challenges such as salinity, drought, flood, hot and cool climate, soil degradation, ground water depletion, infestation of pests and diseases which are worsen due to climate change. On the other hand, Bangladesh is facing

challenges of increasing population and shrinking agricultural land due to infra - structural development. Considering this adversely, conventional agriculture practices are not sufficient to meet the future demand of food and nutrition for the huge population of the country. In this regard, application of modern biotechnological tools would provide an opportunity to enhance productivity and quality of the crops through development of biotic and abiotic stress tolerant varieties of major crops. Therefore, target of the biotechnological research regarding crop plants is to develop variety with the traits like tolerant against biotic and abiotic stresses, higher nutritional quality, short duration etc. In case of livestock and fisheries target is mainly for improvement of breeds, maintenance of species and protection against diseases. In all the cases higher productivity over present rate is the major concern. Ten NARS institutes, NIB, public universities and private organizations have already made success regarding biotechnological and molecular breeding in crops, livestock and fisheries research. This Workshop reviewed the present status of biotechnology and molecular breeding research in Bangladesh for future planning in this area on priority basis. The inaugural session of the workshop was presided over by Prof. Dr. Md. Shah-E-Alam, Department of Genetics and Plant Breeding, Bangladesh Agricultural University.



Dr. Abul Kalam Azad, EC, BARC was addressing the National Workshop on Agricultural Biotechnology

Dr. Md. Aziz Zilani Chowdhury, Member-Director, Crops Division, BARC delivered the welcome address and gave brief introduction about the

workshop. Dr. Lutfur Rahman, Former Professor, Department of Genetics and Plant Breeding, Bangladesh Agricultural University presented keynote paper on *Agricultural Biotechnology and Molecular Breeding: Prospects and Constraints in Bangladesh*. Seven expert members from BAU, BSMRAU, SAU, BSTU, DU and KGF contributed through their expert opinion for making the workshop fruitful. A total of 50 participants including scientists from BARC, BARI, BRRI, BINA, BSRI, BJRI, BTRI, BFRI (Forestry), BLRI, BFRI (Fisheries), NIB, BADC, CDB, BAU, SAU, BSMRAU, Sylhet Agril. University, DU, RU, BRAC, ACI, Supreme Seed and Lal Teer etc. attended the workshop. Twenty three technical papers were presented in the four technical sessions. The papers highlighted the background information, target characters of crops, achievement and present status of biotechnology, utilization of biotech research output in the field level, research thrust area, available facilities, constraints and list of relevant publication. The technical session I, II, III and IV were chaired by Prof. Dr. M. A. Khaleque Mian, Department of Genetics and Plant Breeding, BSMRAU, Gazipur; Prof. Dr. Md. Shahidur Rashid Bhuiyan, Pro-VC, SAU, Dhaka; Prof. Dr. Shah-E-Alam, Department of Genetics and Plant Breeding, BAU, Mymensingh and Prof. Dr. Rakha Hari Sarker, Department of Botany, DU, Dhaka, respectively. Dr. Abul Kalam Azad, Executive Chairman, Bangladesh Agricultural Research Council presided over the recommendation session.

Government Performance Management (GPM) Training

A two-day training on *Government Performance Management (GPM)* was organized by the Manpower and Training Unit, BARC during 11-12 June 2016 at BARC in accordance with the instructions of the Ministry of Agriculture. The training program was attended by 50 officers of BARC. Resource persons from the Ministry of Agriculture discussed the topics like Guidelines for Annual Performance Agreement (APA), APA

Monitoring and Evaluation, Grievance Redress System, Concept of Government Management Performance System (GPMS), Citizen's/Client's Charter, Innovations for Improvement of Service Delivery etc.

Training on Right to Information Act

A day long training program on *Right to Information Act* was organized by the Man power & Training Unit, BARC on 12 April, 2016. Fifty officers of the Council attended the training program. Mr. Nepal Chandra Sarker, Information Commissioner of the Information Commission, Dhaka attended the inaugural session as chief guest. He was also a resource speaker for the 1st session. Dr. Abul Kalam Azad, Executive Chairman of BARC presided over the inaugural session. Other resource persons were from the Ministry of Agriculture and MRDI,



Pictorial View of the Training

an NGO assisting the Information Commission for implementation of Right to Information Act. The training program was implemented in accordance with the decision taken in the Monthly Coordination Meeting of Ministry of Agriculture.

FAO Regional Consultation Meeting on The State of Asia's Biodiversity for Food and Agriculture

Dr. Md. Aziz Zilani Chowdhury, Member Director of Crops, BARC and the national focal point of Bangladesh attended a consultation meeting on *The State of Asia's Biodiversity for Food and Agriculture* was held at Bangkok, Thailand during 26-28 April

2016. Focal points of 16 countries namely Afganistan, Bangladesh, Bhutan, Cambodia, India, Lao PDR, Malaysia, Maldives, Mongolia, Nepal, Pakistan, The Philippines, Singapore, SriLanka, Thailand and Vietnam participated in the consultation meeting. The final country report on *The State of the World's Biodiversity for Food and Agriculture: Bangladesh Part*, submitted on 16 March 2016 was appreciated by FAO.



Pictorial View of the Consultation Meeting

A power point presentationwas delivered by Dr. Zilanion The traditional floating agriculture system to the livelihoods of local communities in Bangladesh was highly appreciated by the participating countries. Besides the focal points participated in three working groups for identifying needs and priorities of Biodiversity(s) on i) Assessment and monitoring; ii) Sustainable use and conservation; iii) Regional and International Cooperation related to Policies, Institution and Capacity. The participants discussed and worked out on needs and possible actions for the sustainable use and conservation of biodiversity for food and agriculture and its access and benefit-sharing mechanisms.

Second AFACI International Training -Workshop on Postharvest Management Technology for Horticultural Crops

Dr. Md. Hamim Reza, Chief Scientific Officer, Bangladesh Agricultural Research Institute and Dr. Md. Abdus Salam, Principal Scientific Officer, Crops

Division, Bangladesh Agricultural Research Council as well as Co-PI of AFACI Postharvest Management Project participated in the 2nd AFACI International Training-Workshop on Postharvest Management Technology for Horticultural Crops held in Thailand during 14-28 June 2016. A total of 22 participants from 11 member countries of AFACI Bangladesh, Cambodia, Indonesia, Kyrgyzstan, Laos, Mongolia, Nepal, Philippines, Sri Lanka, Thailand, and Vietnam participated in this program. Objectives of the Training-Workshop were i) to enhance skills of stakeholders in developing countries in postharvest technologies; ii) to strengthen the capacity to reduce postharvest losses through the application of best practices and exchange of technical know?how among partner countries,



Dr. Md. Abdus Salam received certificate for the best country report presentation.

iii) to strengthen the capacity to improve seed germination for better stand establishment and higher yield through improved seed storage and seed priming technologies and iv) to establish a platform for regular discussion of relevant topics and information exchangeamong stakeholders in AFACI partner countries through the formation of a Postharvest Working Group. Postharvest Management of Fruits and Vegetables was discussed in this workshop. Bangladesh was awarded as the best country report presentation among the 11 member countries of AFACI.

Pulses for Sustainable Agriculture and Human Health

To commemorate the International Year of Pulses 2016, the South Asia Office of the International Food Policy Research Institute (IFPRI), New Delhi had organised an international conference on pulses under the theme *Pulses for Sustainable Agriculture and Human Health* during 31 May-1 June, 2016 at New Delhi. The conference was well attended and it received delegates from eight different countries and had about 48 discussions under various sessions and a total of 104 posters were presented on the two days. From Bangladesh, two eminent scientists working in the agriculture sector, IFPRI Bangladesh representative and Ms. Susmita Das, Senior Documentation Officer from BARC attended the conference .



Susmita Das with her poster along with Dr. Z. Karim Former Secretary, Dr. S. G. Hussain, Former Member Director, BARC and Dr. Debduth Behura Asst.Prof. OUAT, Odisha, India.

Ms. Das presented a poster on *Pulses Production in Bangladesh: Status and Drivers for Enhancement* reflecting the present status of pulses production and the major key drivers for its improvement. The speakers in the session mentioned that for improving the national pulse sector, only use of technology developed is not enough but it needs increased government support. In the inaugural session, Dr. Shenggen Fan, Director General of IFPRI had

launched the Global Food Policy Report 2016. Dr. Parthasarathy Rao, a former ICRISAT scientist provided an overview of pulse production, consumption, and demand, citing the Global Perspective of Pulses.

AFACI General Assembly in Colombo

Dr. Md. Saifullah, PSO, Forestry Unit, NRM Division, BARC participated in the 4th Asian Food and Agriculture Cooperation Initiative (AFACI)



Dr. Md. Saifullah, PSO, Forestry Unit, NRM Division, BARC participated in the 4th Asian Food and Agriculture cooperation Initiative (AFACI) General Assembly in Colombo

General Assembly in Colombo, Sri Lanka on 17-20 May, 2016. He led the three members delegates from Bangladesh. In this general assembly the Materials Transfer Agreement (MTA) was signed among the 10 member countries namely Bangladesh, Indonesia, Kyrgyz Republic, Lao PDR, Mongolia, Nepal, Philippines, Sri Lanka, Vietnam, Republic of Korea for genetic materials transfer for research, breeding and training among the 10 member countries namely Bangladesh, Indonesia, Kyrgyz Republic, Lao PDR, Mongolia, Nepal, Philippines, Sri Lanka, Vietnam, Republic of Korea for genetic materials transfer for research, breeding and training among the member countries.

Workshop on the Review of Avian Influenza

The workshop on *the Review of Avian Influenza and its Prevention and Control Measures taken in Bangladesh* was held on 9 June, 2016, started with the inaugural speech of Dr. Shah Md. Ziqrul Haq Chowdhury, MD (Livestock), BARC followed by

technical sessions. Thirty Seven participants from BARC, BLRI, DLS, BAU, CVASU, SAU (Dhaka), SAU (Sylhet), BSMRAU, RU, HSTU, SAC, BRAC and Advance Animal Science Co. Ltd. attended the workshop. A total of 7 papers from BLRI, BAU, CVASU, DLS, IEDCR and FAO were presented

under technical sessions-1 and 2, chaired by Dr. Nitish Chandra Debnath and Dr. Kazi M. Kamaruddin, respectively. Recommendation session was chaired by Dr. Abul Kalam Azad, Executive Chairman, BARC.

Government Launches National Agricultural Technology Program -Phase II Project (NATP-2)

To increase agricultural productivity of smallholder farms and improve small holder farmers' access to markets in selected districts, the government has approved National Agricultural Technology Program (NATP-2) with total cost of Taka 1,878 crore for six years, duration 1st October 2015 to 30 September 2021. Under two sponsored ministry - Ministry of Agriculture and Ministry of Livestock and Fisheries, the components of this project: i) Enhancing Agricultural Technology Generation, PIU-BARC; ii) Supporting Crop Development, PIU-DAE; iii) Supporting Fisheries Development, PIU-DoF; iv) Supporting Livestock Development, PIU-DLS; v) Project Management- PMU. The project is funded by GoB, World Bank, IFAD and USAID. The project strated from 5 September 2016. PIU-BARC component under Bangladesh Agricultural Research Council will lead to generate innovative agricultural technologies and improve the performance of the National Agricultural Research System (NARS) by strengthening agricultural research institutions- include technology generation, human resource development (higher studies and capacity building training) and research & training facilities development.

Acknowledgement

This Newsletter is published with the information and illustrations contributed by different division/units/centres of BARC and other concerns. The contributors have also provided valuable advice and comments to make the publication informative and attractive. Their supports in bringing out the publication are warmly acknowledged with the aspiration of continued co-operation for the forthcoming issues.

Readers and Contributors

The scientists, technologists and concerned officials involved in NARS institutes are requested to send articles, success stories, research highlights and reports on important events with quality photographs for BARC Newsletter. Cooperation in this regard as well as your valuable comments and suggestions for our future endeavour would be highly appreciated.

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"Planet 50-50 Champion" & "Agent of Change Award"
You made the Nation Champion.



"Friends of Liberation War Honour"
You made our pride global.



"ICT for Development Award"
The country is celebrating your success.

We offer our **Heartiest Congratulations**
to Hon'ble Prime Minister **Sheikh Hasina**
for receiving Planet 50-50 Champion and Agent of Change Awards
for her outstanding contributions to women's empowerment.
This award will inspire and encourage us in achieving the
sustainable development goals.



Bangladesh Agricultural Research Council